

IMPS*2024



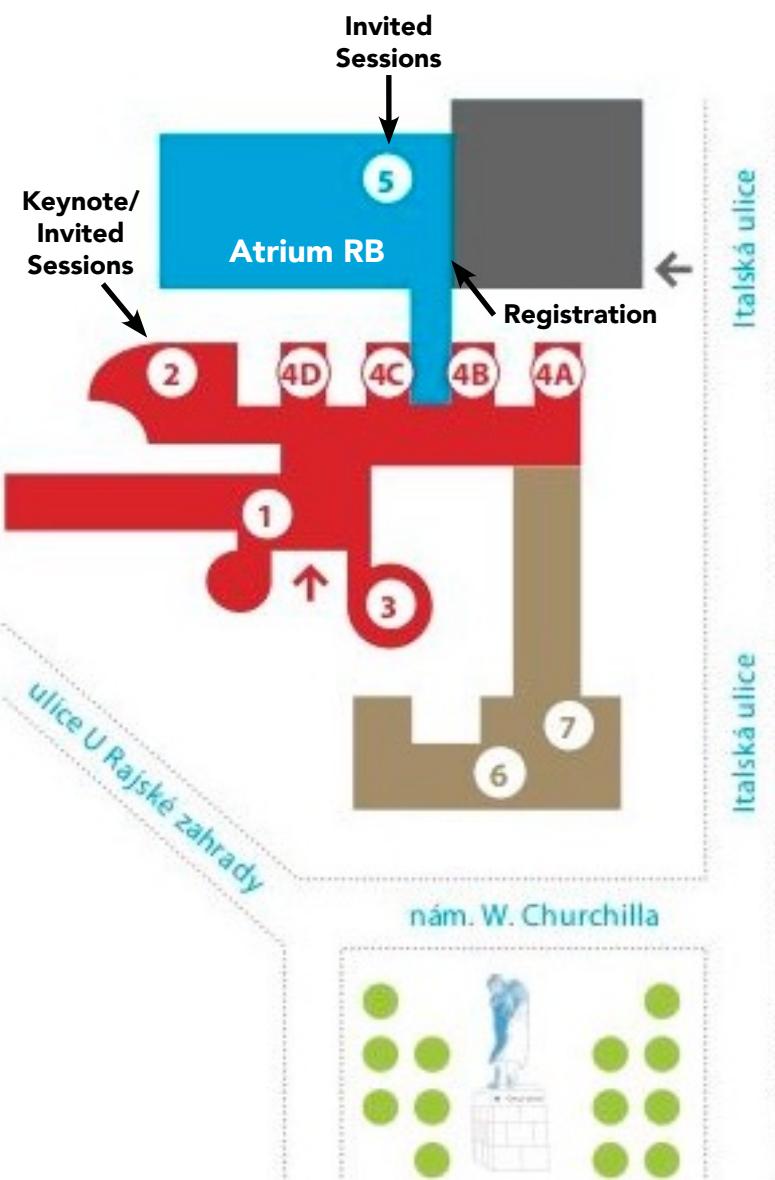
Prague, Czech Republic

July 16-19, 2024 • Short Courses July 15



Conference Map

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NB | NEW BUILDING

GROUND FLOOR: ① Information Centre ② Vencovského Auditorium
③ Likesova Auditorium ④ Lecture Halls A, B, C, D **FIRST FLOOR:** • Rector's Office
• Faculty of Finance and Accounting **SECOND FLOOR:** • Faculty of International
Relations **THIRD FLOOR:** • Faculty of Economics **FOURTH FLOOR:** • Faculty
of Informatics and Statistics

SB | OLD BUILDING

GROUND FLOOR: • Computer Centre ⑥ Book and Gift Store **MEZANIN:** ⑦ Library CIKS
FIRST AND SECOND FLOOR: • Classrooms SB **THIRD FLOOR:** • Classrooms SB
• Publishing House Oeconomica **FOURTH FLOOR:** • Classrooms SB

RB | RAJSKA BUILDING

FIRST FLOOR: ⑤ RB 101 Auditorium and Lecture Halls RB ⑥
SECOND FLOOR: • Classrooms RB **THIRD FLOOR:** • Faculty of Business Administration
• HR Department **FOURTH FLOOR:** • Faculty of Business Administration, Dean's Office
FIFTH FLOOR: • Bursar's Office • International Studies Centre

IB | ITALSKA BUILDING

FIRST AND SECOND FLOOR: • Canteens **THIRD FLOOR:** • Department of
Science and Research • Sport Centre • Academic Club

IMPS Registration Hours of Operation

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VŠE Building

Atrium of the RB Building
nám. Winstona Churchilla 1938/4, 130 00 Praha 3 - Žižkov

Monday, July 15:
8:00 a.m. - 5:00 p.m.

Tuesday, July 16:
8:00 a.m. - 4:30 p.m.

Wednesday, July 17:
8:00 a.m. - 5:00 p.m.

Thursday, July 18:
8:00 a.m. - 4:00 p.m.

Friday, July 19:
8:00 a.m. - 2:00 p.m.

Monday • July 15

RB 209

RB 210

9:00 a.m. - 5:00 p.m.

Short Course #1:

Tools of machine learning in psychometrics

Speaker: Rudolf Debelak & David Goretzko

Agenda to be announced

9:00 a.m. - 5:00 p.m.

Short Course #2:

Structural equation models for categorical outcomes using lavaan

Speakers: Terrence D. Jorgensen

Agenda to be announced

RB 211

RB 210

Part 1: 9:30 a.m. - 12:30 p.m.

Part 2: 2:00 p.m. - 5:00 p.m.

Short Course #3:

Planning and conducting simulation studies in R

Speaker: Carolin Strobl & Mirka Henninger

Agenda to be announced

9:30 a.m. - 12:30 p.m.

Short Course #4:

Computerized adaptive testing and multistage testing with R

Speaker: Duanli Yan & Alina A. von Davier

Agenda to be announced

9:00 a.m. -
9:15 a.m.

Vencovského aula

Welcome: Prof. David Kaplan, Dr. Patrícia Martinková, and Prof. Jakub Fischer9:15 a.m. -
10:15 a.m.

Vencovského aula

Keynote Address: Prof. Adrian E. Raftery
Statistical inference with model uncertainty
Chair: Prof. David Kaplan10:15 a.m. -
10:45 a.m.

Atrium RB

Refreshment Break10:45 a.m. -
12:00 p.m.

Vencovského aula

Invited Panel: Quality standards for simulation studies in psychometric
Chair: Prof. Carolin Strobl**Schedule to be announced**

RB 101

Session: Problems in mediation analysis
Chair: Prof. Ying Yuan**Bayesian latent class dynamic mediation model**
Prof. Ying Yuan**Relative importance analysis in multiple mediator models**
Dr. Xin Gu**Assessing heterogeneous treatment effects in Bayesian longitudinal mediation models**
Ziwei Zhang**Causal mediation analysis for binary outcomes with asymmetric link functions**
Yuji Tsutoba

NB A

Symposium: Asymmetric item response models
Chair: Dr. Jay Verkuilen**Heywood cases in asymmetric IRT**
Dr. Jay Verkuilen**Bayesian model averaging of (a)symmetric IRT models in small samples**
Fabio Setti**Parsimonious item response theory modeling with different link functions**
Dr. Wes Bonifay**Unipolar IRT and vocabulary development**
Prof. Daniel Bolt

NB B

Session: Topics in latent variable estimation
Chair: Dr. Björn Andersson**Uncertainty quantification for latent variable selection in high dimensional exploratory factor analysis**
Ms. Xinyi Liu**Pairwise stochastic approximation for confirmatory factor analysis of categorical data**
Dr. Giuseppe Alfonzetti**Generalized linear latent variable models with nonignorable missing data**
Dr. Björn Andersson**A two-stage path analysis approach to model interaction effects for congeneric measures**
Mr. Gengrui Zhang

NB C

Symposium: Integrating large language models and artificial intelligence in research: network psychometrics, emotion dynamics, and open-ended evaluations
Chair: Dr. Hudson Golino**Assessing the quality of AI-generated items: a network psychometric approach**
Mrs. Lara Russell-Lasalandra**Decoding emotion dynamics using transformer-based AI models: a novel approach for facial expression recognition in videos using transforEmotion R package**
Dr. Aleksandar Tomašević**Improving retrieval-augmented generation and zero-shot classification with exploratory graph analysis**
Dr. Hudson Golino**Extracting useful information from open-ended responses using zero-shot classification: an example using student's evaluation of teaching**
Dr. Mariana Teles

NB D

Session: Topics in reliability
Chair: Victoria Savalei**Maximal reliability coefficients for bifactor models**
Victoria Savalei**On the estimation of reliability in knowledge space theory**
Prof. Andrea Spoto**Reliability in intensive longitudinal studies: a state-space vs. linear mixed model approach**
Mr. Tzu-Yao Lin**Estimating reliability for mixed-format tests**
Ye Yuan**Standard errors and null-hypothesis significance tests for reliability coefficients**
Andries van der Ark

RB 209

Symposium: Advancements in structural equation modeling (SEM): model fit, parameter selection, and measurement invariance
Chair: David Goretzko**Sensitivity of model fit indices in SEM to underfactoring**
Dr. Melanie Viola Partsch**Projection predictive variable selection for Bayesian regularized structural equation modeling**
Dr. Sara van Erp**Exploring measurement non-invariance with exploratory factor analysis trees and exploratory graph analysis trees**
David Goretzko**Measurement invariance in within-person latent structure for dynamic factor models**
Dr. Ai Ye**A causal framework for the comparability of latent variables**
Philipp Sterner

RB 210

Session: Developments in IRT
Chair: Prof. Mark Wilson**A new measure and an old measure of person fit**
Mr. Horacio Rocha**Detection of local dependence within PCMs through recent L1-penalization approaches**
Mr. Can Güner**Investigating the invariant ordering of clustered items using nonparametric IRT**
Dr. Letty Koopman**Integrating observations and test scores: a fixed-random item model**
Prof. Mark Wilson**A latent variable model for multiple resubmission item responses**
Xiang Liu

RB 211

Symposium: New developments in dynamic modeling
Chair: Dr. Sy-Miin Chow**Analytic standard errors for latent Gaussian discrete-valued multivariate time series**
Mr. Christopher Crawford**Extending fit indices from structural equation models to state space models**
Mr. Hyungeun Oh**Reliability in multilevel continuous time modeling**
Xiaoyue Xiong**Standard errors and confidence intervals for total, direct, and indirect effects in continuous-time models**
Dr. Sy-Miin Chow

RB 212

Session: Topics in factor analysis
Prof. Amanda Fairchild**Hierarchical relation among minimum rank FA, PCA, and prevalent FA**
Prof. Kohei Adachi**The partially oblique rotation for exploratory factor analysis**
Prof. Marcos Jiménez**Overcoming Heywood cases in factor analysis: a maximum penalized likelihood approach**
Mr. Philipp Sterzinger**Does choice of nonnormal data generation algorithm affect simulation results?**
Prof. Amanda Fairchild

**TUESDAY
CONTINUED**
**12:00 p.m. -
1:30 p.m.**

VŠE Menza

Lunch (On Your Own)

**1:30 p.m. -
2:15 p.m.**

Vencovského aula

Invited Speaker: Dr. Cécile Proust-Lima
**Continuous-time latent variable modeling of measurement scales in health studies:
applications to the multiple-system atrophy progression**
Chair: Prof. Steve Culpepper

RB 101

Invited Speaker: Dr. Esther Ulitzsch
**Confirmatory mixture models for investigating contextual correlates of response
behavior in ecological momentary assessments**
Chair: Prof. Carolin Strobl

**2:30 p.m. -
3:45 p.m.**

RB 101

Session: Psychometric applications in psychology
Chair: Dr. Jenn-Yun Tein

**Decoding intelligence: investigating the
structure of intelligence**
Ms. Laura Maria Fetz

**An investigation the context effect in the
multidimensional forced-choice personality
measurement**
Dr. Kyosuke Bunji

**Dynamic and bidirectional associations between
physical-activity, smartphone addiction and state
self-esteem**
Yang Cui

**Predicting onset of child positive and negative
affect and behavior**
Dr. Jenn-Yun Tein

**Developing a framework for testing dyadic
associations using pseudodyads and
permutations**
Chiara Carlier

NB A

**Session: Topics in categorical
data analysis**
Chair: Prof. Silvia Bianconcini

**Ordinal latent space item response
models for Likert scale assessments**
Ludovica De Carolis

**Implications of alternative
parameterizations in structural equation
models for longitudinal categorical
variables**
Prof. Silvia Bianconcini

**Similarity measures between two sets of
binary vectors**
Prof. Sophie Vanbelle

**Fitting and testing log-linear item
response models with known support**
Dr. David Hessen

NB B

**Symposium: Beyond ignorability: advancing
with partial identifiability in psychometrics**
Chair: Dr. Eduardo Alarcón-Bustamante

**Assessing the marginal effect under partial
observability in a selection context**
Dr. Eduardo Alarcón-Bustamante

**A partial identifiability approach for
analyzing regression functions with missing
data in the outcome**
Dr. Jorge Gonzalez

**On the impact of missing outcomes in
predictive capacity of selection tests studies**
Dr. Inés Varas

**The role of inductive behavior in public
policy evaluation: the case of self-selection**
Dr. Ernesto San Martín

NB C

**Symposium: Novel advances in psychometric
network modeling**
Chair: Mr. Xinkai Du

**From exploratory to confirmatory network
psychometrics: fit indices and cutoff values**
Mr. Xinkai Du

**Integration of Ising model and computer adaptive
testing: a simulation**
Mr. Tuo Liu

**Testing for similarity between idiographic networks:
the individual network invariance test (INIT)**
Ms. Ria Hoekstra

**Bayesian estimation and comparison of idiographic
network models**
Björn Siepe

**Exploratory subgroup detection of psychological
networks: assessing the impact of ordinal and
skewed data**
Tatiana Kvetnaya

**Challenges in sample size calculation for psychological
networks with missing data**
Kai Jannik Nehler

NB D

**Symposium: Statistical learning approaches
to psychometric challenges**
Chair: Dr. Dylan Molenaar

**Autoencoders for amortized joint maximum
likelihood estimation of item response
theory models**
Dr. Dylan Molenaar

**One shape may not fit all: detecting
differences in trajectories using GAM trees**
Dr. Marjolein Fokkema

**Affect modeling with wavelet-based time
series and statistical learning methods**
Dr. Sy-Miin Chow

**Handling missing data in variational
autoencoder based item response theory**
Mr. Karel Veldkamp

RB 209

Session: Differential item functioning
Chair: Prof. Ronna Turner

**Complementing Rasch-trees with various DIF
detection methods for media-addiction scale**
Dr. Minsun Chi

**Group-specific detection rates when using tree-
based differential item functioning methods**
Prof. Ronna Turner

**A comparison of various DIF detection methods
under sparse matrices**
Ms. Haeju Lee

**Using criterion validity to solve the scale
indeterminacy in the context of DIF: an external
variable approach**
Dr. Jesper Tijmstra

**Calculating bias in equating and handling DIF
anchor items**
Prof. Marie Wiberg

RB 210

**Symposium: Heterogeneity in
repeated measures**
Chair: Prof. Timothy Brick

**Improving Boruta feature selection in
multivariate framework**
Ms. Priyanka Paul

**Are general truths generally true?
Accommodating meaningful heterogeneity
in dynamic processes**
Dr. Zachary Fisher

**Making extremely heterogeneous person-
specific dynamics so happy together: state
space mixtures all the way down**
Prof. Michael Hunter

**Unsupervised model construction in
continuous-time**
Jonathan Park

RB 211

**Session: Topics in longitudinal
data analysis**
Chair: Dr. Yan Wang

**Developing cross-classified growth
mixture models to account for student
mobility**
Dr. Yan Wang

**A new approach of integrating nonlinear
growth modeling on accelerated
longitudinal design**
Ms. Heejoo Park

**Validation of the intra-individual speed-
ability relationship (ISAR) model**
Augustin Mutak

**Joint modeling: dynamic latent variables,
survival outcomes, and MNAR data**
Ms. Yvette Baurne

RB 212

**Symposium: Theory construction
methods**
Chair: Mr. Jason Nak

**Text mining systematic reviews: new
directions for qualitative research
synthesis**
Mr. Rasoul Norouzi

AI-assisted theory construction
Meike Waaijers

**A theory construction framework for
networks**
Mx. Adam Finnemann

**PsychoModels and PsychoFacts: a
platform for formal theory development
in psychological science**
Mr. Jason Nak

**TUESDAY
CONTINUED**
**3:45 p.m. -
4:15 p.m.**

Atrium RB

Group Photo

All attendees welcome!

Atrium RB

Refreshment Break

**4:15 p.m. -
5:15 p.m.**

Vencovského aula

Dissertation Award Speaker: Prof. Gyeongcheol Cho

Constructs may or may not be latent: studies on two domains of structural equation modeling

Chair: Prof. Terry Ackerman

**6:30 p.m. -
9:00 p.m.**

Karolinum (Charles University) | Address: Ovocný trh 560/5, 110 00 Staré Město

Welcome Reception

Details to be announced



Vencovského aula	RB 101	NB A	NB B	NB C
<p>Invited Panel: Foundational competencies in educational measurement: an NCME task force consensus Chair: Prof. Andrew Ho</p> <p>Schedule to be announced</p>	<p>Symposium: Using process data to understand, assist, and enhance assessment Chair: Dr. Mengxiao Zhu</p> <p>Linking writing process data to writing quality Hong Jiao</p> <p>Explaining performance gaps with problem-solving process data via LCMA Sunbeam Kwon</p> <p>Scoring of argumentative writing using keystroke logs and deep learning models Dr. Mengxiao Zhu</p>	<p>Symposium: Latent variable models for complex data structures Chair: Mariagiulia Matteucci</p> <p>Joint modelling of students' academic performance and dropout Prof. Michela Battauz</p> <p>Cheating detection based on response times in CAT Luca Bungaro</p> <p>A new factor mixture model to detect aberrant respondents Niccolò Cao</p> <p>Latent variable models for panel data: comparison of estimation methods Dr. Lucia Guastadisegni</p> <p>Scalable M-estimation for GLLVM Prof. Maria-Pia Victoria-Feser</p>	<p>Symposium: Modeling heterogeneity in response strategies Chair: Dr. Rudolf Debelak</p> <p>Mixture IRTree models for exploring heterogeneity in response mechanisms Mr. Omer Emre Can Alagoz</p> <p>Investigating heterogeneity in IRTree models for response styles using R Dr. Rudolf Debelak</p> <p>Quantifying DIF and DSF effect sizes in partial credit trees Dr. Mirka Henninger</p> <p>Mining groups with exceptional response processes in structural equation models Christoph Kiefer</p>	<p>Symposium: Using causal inference theory for designing and analyzing replication studies Chair: Prof. Steffi Pohl</p> <p>A causal replication framework for systematic replication efforts Peter M. Steiner</p> <p>Evaluating coaching supports in teacher education: A replication study approach Qing Liu</p> <p>A statistical framework for investigating causes of non-replicability Steffi Pohl</p> <p>Causes of non-replicability: Examining assumptions for causal inference Marie-Ann Sengewald</p> <p>Fractional factorial replication designs: Implementation and analysis Muwon Kwon</p>

9:00 a.m.
- 10:15 a.m.

NB D	RB 209	RB 210	RB 211
<p>Symposium: Advancements in conducting observational intensive longitudinal studies: Design, data, and analysis. Chair: Dr. Sigert Ariens</p> <p>Preprocessing ESM data: a framework, tutorial website, R package, and reporting templates Jordan Revol</p> <p>Episode-contingent experience-sampling designs for accurate estimates of autoregressive dynamics Dr. Sigert Ariens</p> <p>Consequences of missing data types of the multilevel AR(1) model Mr. Benjamin Simsa</p> <p>Combining day-to-day dynamics with day-of-week effects and weekly dynamics using seasonal ARMA models Mr. Mohammadhossein Manuel Haqiqatkhah</p> <p>Advancements in conducting observational intensive longitudinal studies: Study design, data, and analysis Dr. IJsbrand Leerouwer</p>	<p>Symposium: Quantitative methods for assessing the impact of physical environment on health Chair: Dr. Sjoerd Ebisch</p> <p>Predicting mental health through satellite images Dr. Simone Di Plinio</p> <p>Assessing recovery after high-intensity anaerobic exercise: a comparison between physiological and psychological measures Dr. Luca Laezza</p> <p>Validation of the "restorativeness at work scale" (R@WS) Prof. Margherita Brondino</p>	<p>Session: Applications of IRT Chair: Dr. Daniel Dostál</p> <p>Comparing EIRT models for mathematics and ELA across grades 3-8 Dr. Magdalena Beiting-Parrish</p> <p>Using item response theory to investigate whether rater assessments measure rater quality: is there such a thing as a "correct" rating? Dr. William Belzak</p> <p>Selection of eye tracking stimuli via item response theory Benjamin Graves</p> <p>Modernizing high school assessments in Albania: exploring item response theory in state matura exams Prof. Eralda Gjika</p> <p>Enhancing scoring procedures for the divergent association task: leveraging sequential scoring and IRT paradigm Dr. Daniel Dostál</p>	<p>Session: Bayesian issues in IRT Chair: Prof. Seock-Ho Kim</p> <p>A Bayesian approach for joint modeling of rankings and ratings Prof. Elena Erosheva</p> <p>Bayesian nonparametric HETOP models for rating data Dr. Giuseppe Mignemi</p> <p>Some posterior standard deviations of the graded response model Prof. Seock-Ho Kim</p> <p>Estimation of IRT models using NUTS under non-normal distributions Dr. Rehab AlHakmani</p> <p>A Bayesian model to represent ambiguity and atypical behaviour in item response theory Mario Angelelli</p>

10:15 a.m.
- 10:30 a.m.

Atrium RB

Refreshment Break

10:30 a.m. -
11:30 a.m.

Vencovského aula

Career Lifetime Achievement Award: Prof. David Thissen
A selective intellectual history of differential item functioning analysis in item response theory and factorial invariance in factor analysis
Chair: Prof. David Kaplan

11:30 a.m. -
1:00 p.m.

VŠE Menza

Lunch (On Your Own)

**WEDNESDAY
CONTINUED
1:00 p.m. -
2:15 p.m.**

Vencovského aula	NB A	NB B	NB C
<p>Invited Panel: Paths to the future: A panel discussion of the future of SEM Chair: Prof. Steven Boker</p> <p>Schedule to be announced</p>	<p>Session: Topics in IRT 1 Chair: Dr. Gabriel Wallin</p> <p>Individual salience weights in the multidimensional generalized graded unfolding model Prof. James Roberts</p> <p>Item response function variability: a strategy for model comparison research Mr. Xing Chen</p> <p>Refinement of the matching item response model: a shift to generative modeling Mr. Kentaro Fukushima</p> <p>An explanatory hyperbolic cosine model with categorical covariates Dr. Jue Wang</p> <p>A taxonomy of unfolding models Prof. George Engelhard</p>	<p>Symposium: Formal theories of psychological phenomena Chair: Mr. Jesse Boot</p> <p>Improving treatments for mental disorders using computational models Dr. Jonas Haslbeck</p> <p>From budworms to behaviors: bridging the gap between individual psychology and social contexts in addiction Mr. Jesse Boot</p> <p>Towards a general modeling framework of resource competition in cognitive development Ms. Jill de Ron</p> <p>Integrating intraindividual and interindividual phenomena in psychological theories Prof. Denny Borsboom</p>	<p>Session: Bayesian stacking, trees, and predictive modeling Chair: Prof. Sierra Bainter</p> <p>On the improvement of predictive modeling using Bayesian stacking and posterior predictive checking—an example of modeling gender inequality in reading using PISA 2018 Dr. Mariana Nold</p> <p>Incorporating sparsity into Bayesian stacking procedures Ms. Kjorle Harra</p> <p>Bayesian posterior predictive checks to analyze flexible distributional models Ms. Paulina Grekov</p> <p>Bayesian tree regression for estimating heterogeneous trajectories of test scores in large-scale educational data Ms. Mingya Huang</p> <p>Variable selection with missing data using Bayesian additive regression trees Prof. Sierra Bainter</p>

NB D	RB 209	RB 210	RB 211
<p>Symposium: Quantifying replication success: correspondence measures for replication studies Chair: Dr. Vivian Wong</p> <p>Implementation of the correspondence test as an S-curve Patrick Sheehan</p> <p>How best to quantify replication success? Prof. Don van Ravenzwaaij</p> <p>A systematic comparison of correspondence measures for prospective replications Dennis Kondzic</p> <p>Assessing replication success over multiple replication study results Dr. Vivian Wong</p>	<p>Session: Topics in statistical/machine learning Chair: Dr. Qiwei He</p> <p>Estimating latent variance in variational autoencoders parameterization of Rasch models Mr. Denis Federiaki</p> <p>Unsupervised detection of random responding for Likert-type inventories with varying numbers of response categories Mr. Michael John Ilagan</p> <p>Predicting missing response with BERT model in process data Dr. Qiwei He</p> <p>Deep-learning methods for multiple imputation in large-scale survey assessments Dr. Usama Ali</p> <p>Exploring classic machine learning models and large language models in detecting ChatGPT generated essays in writing assessments Mr. Haowei Hua</p>	<p>Session: Topics in clustering Chair: Dr. Magdalen Beiting-Parrish</p> <p>Ordinal cognitive diagnosis in nonparametric framework Prof. Youn Seon Lim</p> <p>Sparse convex optimal discriminant clustering Ms. Mayu Hiraishi</p> <p>Generalized Bayesian method for diagnostic classification models Dr. Kazuhiro Yamaguchi</p> <p>Modeling examinee heterogeneity within performance classification using generalized low rank models Dr. Magdalen Beiting-Parrish</p>	<p>Session: Statistical topics Chair: Dr. Katrin Jansen</p> <p>Multivariate location-scale models for meta-analysis Dr. Katrin Jansen</p> <p>Bayesian modeling of data with ceiling or floor effects Ms. Ruoxuan Li</p> <p>Marginal and conditional posterior predictive p-values for ordinal models Ms. Ellen Fitzsimmons</p> <p>Use of external moment information via externally informed models Mr. Martin Jann</p> <p>The application of a metaheuristic algorithm when developing a test with a pre-defined value of the cut-off score Lenka Firtova</p>

**2:30 p.m. -
3:15 p.m.**

Vencovského aula	RB 101
<p>Invited Speaker: Dr. Patrícia Martinková Computational aspects of psychometric methods and beyond Chair: Prof. Irini Moustaki</p>	<p>Invited Speaker: Prof. Eiko Fried Building bridges between psychometrics island and psychology mainland Chair: Prof. Denny Borsboom</p>

**3:15 p.m. -
3:45 p.m.**

Atrium RB

Refreshment Break



**WEDNESDAY
CONTINUED**
**3:45 p.m. -
4:45 p.m.**

Vencovského aula

Early Career Award: Prof. Maarten Marsman
From network psychometrics to Bayesian graphical modeling
Chair: Prof. Daniel Bolt

**4:45 p.m. -
6:15 p.m.**

Atrium RB

Poster Session

Presenters will be available at posters from 5:00 p.m. - 6:15 p.m. [Click here to view the poster list.](#)

**7:00 p.m. -
10:00 p.m.**

Pivnice Obecní dům (Pilsner Pub Municipal House) | Address: náměstí Republiky 1090/ 5 111 21, Praha 1 – Staré Město

Graduate Student Dinner Mixer

This event is exclusively for graduate students and will be hosted by the Psychometric Society.



Vencovského aula

Symposium: Psychometric methods for analysis of well-being in the context of digital technologies
 Chair: Dr. Patrícia Martiniková
 Discussant: Prof. Šteriani Elavsky

Dynamic systems modeling of human behaviors to improve proactive healthcare
 Prof. Misha Pavel

The reliability of digital trace data in media exposure measures: a multiverse of measurements analysis
 Dr. Oriol Bosch Jover

Joint modeling for non-ignorable missingness in intensive longitudinal data
 Young Won Cho

Utilizing dynamic structural equation modeling on intensive longitudinal data: the inspiration for digital media use effects research
 Mr. David Lacko

Quantification, testing, treatment and interpretation of non-Gaussian dependences in intensive longitudinal data: lessons learned from complex dynamical systems
 Dr. Jaroslav Hlinka

RB 101

Session: Longitudinal latent class and CDM models
 Chair: Jonathan Templin

Discovery of attribute hierarchies in longitudinal cognitive diagnostic models
 Dr. Yinghan Chen

Regularized variational Bayes for Q-matrix inference in cognitive diagnosis models
 Ms. Yi Jin

A wrinkle in the IRT theta continuum: exploring DCM classification
 Jonathan Templin

Identifiability of hidden Markov models for psychometric research
 Prof. Steve Culpepper

Stepwise estimation approaches of complex latent class models: best practices
 Dr. Zsuzsa Bakk

NB A

Symposium: Novel statistical approaches to tackle challenges in intensive longitudinal data
 Chair: Marieke Schreuder (Belgium) - KU Leuven

Improving the estimation of sample heterogeneity in multivariate dynamic processes through feature selection
 Ms. Di Jody Zhou

Investigating emotional recovery using survival analyses of burst ESM data
 Marieke Schreuder

Person-specific updating approach to deriving EWMA control limits in case of few in-control observations
 Dr. Evelien Schat

Training window selection methods for passive sensing
 Fridtjof Petersen

NB B

Session: Theoretical and applied issues in validity
 Chair: Keith Markus

Notes toward a grammar of validity arguments
 Keith Markus

Integrating IRT and GT via a four-building-block approach
 Mr. Mingfeng Xue

Mitigating social desirability using item quadruples and MIMIC
 Dr. Felipe Valentini

Assessing teaching skills: overcoming psychometric hurdles in observational measures
 Mr. Steffen Erickson

NB C

Session: Novel approaches to IRT
 Chair: Prof. Francis Tuerlinckx

Geometry and psychometrics
 Prof. Francis Tuerlinckx

Regularized Gaussian variational estimation for detecting intersectional differential item functioning
 Mr. He Ren

Bayesian diagnostic classification using doubly bounded visual analogue scaling
 Ms. Hsin Kao

Likelihood-free estimation of IRT models in small samples: A neural networks approach
 Dr. Dmitry Belov

A differential equation framework for the derivation of item response functions
 Prof. Yvonne Noel

9:00 a.m. -
10:15 a.m.

NB D

Session: Topics in missing data analysis
 Chair: Dr. Joost Van Ginkel

How many plausible values?
 Dr. Paul Jewsbury

Planned missing data designs for addressing measurement reactivity
 Mark Himmelstein

Moderated factor analysis with missing data: a multiple imputation approach
 Dr. Joost Van Ginkel

Ising network analysis with missing data
 Dr. Siliang Zhang

RB 209

Session: Topics in causal inference 1
 Chair: Prof. Jee-Seon Kim

Validation of an SEM multiverse path test
 Ronald Flores

Addressing clustered data structures in causal mediation analysis
 Hanna Kim

An overarching framework for examining diverse forms of heterogeneous causal effects
 Prof. Jee-Seon Kim

Evaluating RKHS mapping effects on functional structural equation models
 Dr. Michio Yamamoto

Multilevel regression discontinuity analysis with measurement models
 Youngjin Han

RB 210

Session: Machine learning and deep learning
 Chair: Dr. Benjamín Garzón

A deep learning approach for a more efficient estimation of rank preserving models
 Mr. Roberto Faleh

Modelling computer-based formative assessment data with graph neural networks
 Dr. Benjamín Garzón

Residual permutation tests for feature importance in machine learning
 Dr. Po-Hsien Huang

Parameterized material recommendation with dual-goal adaptive learning system
 Dr. Tongxin Zhang

RB 211

Session: Bayesian factor analysis and SEM
 Chair: Prof. Christian Abmann

Bayesian dynamic mediation model
 Mr. Chen Qijin

Bayesian SEM fit indices: now for categorical indicators
 Dr. Mauricio Garnier-Villarreal

Bayesian fit measures in approximate measurement invariance in cross-cultural research
 Dr. Chunhua Cao

Bayesian confirmatory factor analysis with missing values
 Prof. Christian Abmann

Bayesian joint modal estimation for sparse item factor analysis
 Dr. Kensuke Okada

10:15 a.m.
- 10:45 a.m.

Atrium RB**Refreshment Break**

10:45 a.m. -
11:45 a.m.

Vencovského aula

Keynote Speaker: Prof. David MacKinnon
The investigation of mediating processes as a measurement challenge
 Chair: Prof. David Kaplan

Lunch (On Your Own)

Vencovského aula

Symposium: Item response theory and health outcomes: novel applications and methods
Chair: Dr. Leah Feuerstahler

Latent variable modeling for unipolar constructs in health sciences
Dr. Edward Ip

The application of IRT to traumatic brain injury research: some promise and challenges
Dr. Brooke Magnus

Mixture item response theory to quantify cumulative environmental exposure burden
Dr. Shelley Liu

An explanatory IRT model for toxicity-weighted environmental exposure burden scores
Dr. Leah Feuerstahler

RB 101

Session: Problems in cognitive diagnostic modeling
Chair: Dr. Pablo Nájera

A psychometric analysis on associations between coding concepts and item difficulty
Chen Li

Evaluating methods for assessing model fit in diagnostic classification models
Jake Thompson

A general diagnostic modeling framework for forced-choice items
Dr. Pablo Nájera

Correcting validity coefficients with aggregated data in cognitive diagnosis models
Dr. Rodrigo Schames Kreitchmann

A generalized Q-matrix estimation method for nonparametric cognitive diagnosis
Mrs. Jia Li

NB A

Session: Topics in factor analysis
Chair: Dr. Alexis Georgeson

A factor analytic analogue for summed score EAPs
Dr. Alexis Georgeson

Comparing item selection in regularized factor analysis and network models
Ms. Jiaying Chen

Covariate-adjusted generalized factor analysis with application to testing fairness
Jing Ouyang

Multilevel factor mixture modeling: a simulation study
Dr. Eunsook Kim

Pseudo-factor analysis of embedding similarity matrices
Nigel Guenole

NB B

Symposium: Recent advances in (non-)Bayesian informative hypothesis evaluation
Chair: Dr. Rebecca Kuiper

Applying the informative hypothesis approach to media effects
Ms. Nikol Kvardova

Theory-based hypothesis evaluation using information criteria
Dr. Rebecca Kuiper

Bayesian evaluation of N=1 studies
Prof. Herbert Hoijink

Making nomological networks confirmatory using GORICA
Mr. Petr Palisek

Benchmarks and cut-off norms: necessary evils or questionable science inducers?
Lars de Vreugd

Emotions under control? The relationship between emotionality and cognitive control reverse if event-unpleasantness is increased within individuals
Mr. Levente Rónai

NB C

Session: Topics in intensive longitudinal data analysis
Chair: Conor Lacey

Extending the time-varying temporal network to allow changing contemporaneous connections
Simran Johal

Individual versus group-level analysis techniques for intensive longitudinal data: a primer
Conor Lacey

Investigation of detrending methods for intensive longitudinal dyadic data analysis
Yue Xiao

Estimating actor and partner effects from intensive longitudinal dyadic data with large amounts of missing values: estimation performance of the longitudinal actor-partner interdependence model and possible alternatives
Yuanyuan Ji

1:15 p.m. -
2:30 p.m.

NB D

Symposium: Using structural equation models to analyze round-robin data from social networks
Chair: Dr. Terrence Jorgensen

A correlated traits correlated (methods – 1) multitrait-multimethod model for augmented round-robin data
Dr. David Jendryczko

Multiple constructs multiple indicators social relations modes with and without roles
Dr. Fridtjof W. Nussbeck

Toward a general multivariate framework for social network data: An overview of estimation methods for structural social-relations models
Dr. Terrence Jorgensen

Incorporating level-specific covariates in structural equation models of social-network data
Ms. Aditi Manoj Bhangale

RB 209

Session: Differential item functioning
Chair: Dr. Heinrich Cham

Detecting non-uniform differential item functioning in latent variable interaction framework
Dr. Heinrich Cham

Extending the cluster approach to differential item functioning in polytomous items
Mr. Martijn Schoenmakers

Advancing polytomous DIF detection with the residual DIF framework
Dr. Hwanggyu Lim

Assessing differential step functioning for polytomous items with scale purification
Dr. Ya-Hui Su

RB 210

Symposium: Psychometric innovations for adaptive learning systems
Chair: Dr. Maria Bolsinova

A dynamic k value approach for the Elo rating system
Hanke Vermeiren

Curious interactions between learners and Elo rating systems
Dr. Abe Hofman

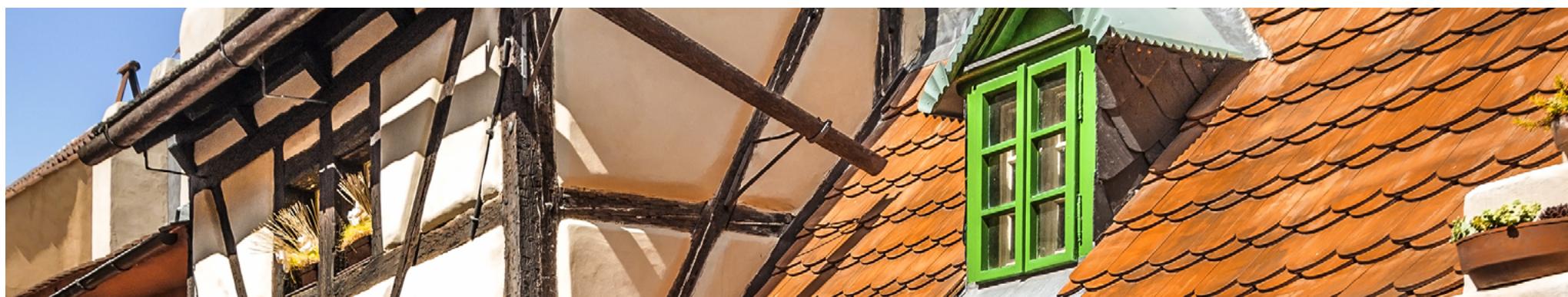
Tracking changing abilities in adaptive learning system using response times
Bence Gergely

Modeling individual differences in error-induced quitting
Ms. Annie Johansson

RB 211

Session: Graduate Student Research Competition
Chair: Prof. Silvia Cagnone

Schedule to be announced



**THURSDAY
CONTINUED**
**2:45 p.m. -
4:00 p.m.**

Vencovského aula	RB 101	NB A	NB B	NB C
<p>Cito Special Symposium: The future of educational measurement: Integrating AI and psychometrics Chair: Dr. Joost Kruis</p> <p>Safeguarding the human element in educational measurement: why we need qualitative methods for validation in the quantitative era of AI Mr. Max van Haastrecht</p> <p>Harmonizing ADHD scores by using different methods (linear equating, Kernel Equating, IRT, machine learning) Miljan Jovic</p> <p>Using natural language processing to score [short] answers to open-ended items Dr. Joost Kruis</p> <p>Psychometrics as the origin of statistics as the origin of data science Dr. Ivalio Partchev</p>	<p>Session: Dimensionality and IRT Chair: Dr. Chia-Wen Chen</p> <p>Beyond confirmatory: dimensionality assessment in forced-choice data Mr. Diego Graña</p> <p>Semi-parametric item factor analysis Dr. Camilo Cardenas</p> <p>Computation of model scores for multidimensional item response theory models fitted with the WLS estimator Franz Classe</p> <p>A bifactor Thurstonian IRT Model for multidimensional forced-choice questionnaires with negative wording effect Dr. Chia-Wen Chen</p>	<p>Session: Priors in Bayesian models Chair: Dr. Josine Verhagen</p> <p>Inferring mastery of math skills over time using power priors Dr. Josine Verhagen</p> <p>On the prior effective sample size of normal and Dirichlet priors for threshold parameters Dr. Noah Padgett</p> <p>Bayesian power priors in latent variable models with small samples Dr. Lihan Chen</p> <p>Zero-and-one-inflated generalized Dirichlet distribution to estimate the order of resource allocation Mr. Taisei Wakai</p>	<p>Session: Topics in causal inference 2 Chair: Mr. Graham Buhrman</p> <p>Prognostic score methods for the estimation of average causal effects Mrs. Chamika Porage</p> <p>Monotonicity matters: evaluating heterogeneous treatment effect estimation via nonparametric regression tree methods Mr. Graham Buhrman</p> <p>Disentangling person-dependent and item-dependent causal effects: applications of item response theory to the estimation of treatment effect heterogeneity Mr. Joshua Gilbert</p> <p>Strengthening causal claims from educational studies: a sensitivity analysis approach Ms. Elaine Chiu</p> <p>Estimating the causal impact of test changes on test scores in continuous high-stakes assessments Dr. Manqian Liao</p>	<p>Session: Psychometric applications to health Chair: Mr. Nico Remmert</p> <p>Assessing clinical avoidance behavior: a testing framework using process data Mr. Nico Remmert</p> <p>Investigating measurement invariance of the simplified beck depression inventory using rating scale tree model Mr. Farshad Effatpanah</p> <p>The patient activation measure read aloud in a clinical setting Ms. Magdalena Holter</p>
NB D	RB 209	RB 210	RB 211	RB 212
<p>Session: More on AI and machine learning Chair: Prof. Elise Dusseldorp</p> <p>Meta-regression trees: three innovations Prof. Elise Dusseldorp</p> <p>Introducing multilevel lasso models into value-added assessment for variable selection Ms. Qing Zeng</p> <p>AI-based AIG for mathematics within a learning engineering framework Prof. Ji Hoon Ryoo</p> <p>Automating psychometrics: AI - powered item generation Dr. Karel Recka</p> <p>An introduction to anytime-valid inference in psychology Mark Van Lokeren</p>	<p>Session: Psychometric applications to cognition and learning Chair: Prof. Adva Levi</p> <p>Stop using d' and start using d_a : evidence from empirical data on how to measure sensitivity in recognition memory Prof. Adva Levi</p> <p>Intersectional approaches to understanding heterogeneity of cognition aging: a data-driven exploration Dr. Sunmee Kim</p> <p>Score development for the NIH infant and toddler toolbox gaze Dr. Lihua Yao</p>	<p>Session: Response processes and test taking behaviors Chair: Dr. Jing Lu</p> <p>Detecting test speededness based on Schwarz information criterion Dr. Jing Lu</p> <p>Accounting for rapid guessing in competence estimation in large-scale assessments Eva Zink</p> <p>Enhancing tree-based models for detecting test-taking behaviors: integrating response time and process variables Ms. Tamlyn Lahoud</p> <p>Bayesian factor mixture modeling with response time for detecting careless respondents Ms. Lijin Zhang</p> <p>Modeling careless responding in experience sampling data Milla Pihlajamäki</p>	<p>Session: Topics in large-scale assessments Chair: Dr. Hua-Hua Chang</p> <p>Comparing large-scale assessments with the total survey error approach Dr. Peter van Rijn</p> <p>New standards for validating AI-based educational assessments Dr. Hua-Hua Chang</p> <p>The standard error of equated test scores Prof. Wim J. van der Linden</p> <p>From paper- to computer-based testing: Evaluating the consequences for comparability and fairness Dr. Erika Majoros</p> <p>Examining the performance of hybrid and traditional multistage tests under different conditions Dr. Cagla Alpayar</p>	<p>Session: Topics in IRT 2 Chair: Prof. Ruggero Bellio</p> <p>Importance: A new item parameter that cannot be revealed by single stimulus data Dr. Safrir Youssi</p> <p>Simulation-based uncertainty estimates for and extension of effective difficulty and discrimination measures for binary item response models Mr. Peter Johnson</p> <p>Bias-reduced fixed effects estimation of two-parameter logistic models Prof. Ruggero Bellio</p> <p>Should we trust model flexibility? Investigating alternative polytomous IRT models Dr. Giovanni Bruno</p> <p>Bit scales for item response theory models Mr. Joakim Wallmark</p>

**4:00 p.m. -
4:15 p.m.**

Atrium RB

Refreshment Break

**4:15 p.m. -
6:45 p.m.**

Atrium RB

IMPS 2024 Group Excursion City Walking Tour



Vencovského aula

ETS Special Symposium:
Psychometric innovations in
large-scale survey assessments
Chair: Dr. Duanli Yan

Variable selection techniques for imputation models
Dr. Peter van Rijn

Imputation models for special subpopulations
Dr. Usama Ali

Linking error in large-scale assessments
Dr. Paul Jewsbury

RB 101

Symposium: From traditional to modern methods for the analysis of multi-item measurements
Chair: Dr. Lubomír Štěpánek and Dr. Adéla Hladká
Discussant: Dr. Gabriel Wallin

Robust inference for traditional item discrimination index
Dr. Lubomír Štěpánek

Innovative iterative algorithms for estimation of item functioning
Dr. Adéla Hladká

Fine-tuning language models to predict item difficulty from wording
Jan Netik

On the identifiability and structural learning of R-RUM models
Iván Pérez

NB A

Session: Topics in IRT 3
Chair: Dr. Ben Domingue

Combining item responses and paired comparisons in small sample contexts
Dr. Nathan Zonetti

Modeling process data with explanatory item response models
Dr. Susanne Frick

A mixture-IRT model for careless responding with flexible assumptions
Irina Uglanova

The item response warehouse (IRW)
Dr. Ben Domingue

Standardized person-fit statistics for tests with polytomous items
Prof. Kylie Gorney

NB B

Session: Topics in adaptive testing
Chair: Dr. Aron Fink

Adaptively regulated interim theta bounds for optimizing CAT item selection
Dr. Sung-Hyuck Lee

Non-parametric item response theory for computerized adaptive tests
Laura Aspirot

Computerized adaptive testing with continuous items: Improving the efficiency of noncognitive assessments
Mr. Wei-Hung Yang

Addressing calibration error in multidimensional adaptive testing: A Bayesian approach
Dr. Aron Fink

Evaluating models for item cloning variation under multistage testing
Dr. Won-Chan Lee

NB C

Session: Longitudinal designs and methods
Chair: Dr. Charles Driver

Continuous-time modeling of bivariate developmental trajectories in accelerated longitudinal designs
Ms. Nuria Real-Brioso

More on cross-lagged effects – (mis) specification in dynamic systems models
Dr. Charles Driver

SimDE app: simulating and visualizing formal theories using differential equations
Rohit Batra

Integral dimensionality reduction in models that include nonlinear random coefficients
Dr. Shelley Blozis

9:00 a.m. -
10:15 a.m.

NB D

Symposium: New insights in longitudinal data and mediation analysis
Chair: Prof. Zhiyong Zhang

Modeling dynamic components in intensive longitudinal data analysis: a comparison of one-step vs. two-step approaches
Dr. Peggy Wang

Quantile longitudinal data modeling with missing data
Dr. Xin Tong

Analysis of mediation direction change between manifest and latent variable modeling
Dr. Ke-Hai Yuan

Mediation analysis with text data
Prof. Zhiyong Zhang

A longitudinal study of the impact of living style on the health and mortality risk of the elderly
Prof. Yong Wen

RB 209

Session: Classification methods
Chair: Dr. Liqun Yin

Constructing language models to predict massive student sentiment toward universities
Tonghui Xu

Advancing enemy item detection using transformer-augmented NLP
Dr. Paulius Satkus

Improving context scale interpretation using latent class analysis for cut scores
Dr. Liqun Yin

Blueprinting the future: automatic item categorization using hierarchical zero-shot and few-shot classifiers
Dr. Ting Wang

RB 210

Session: Psychometric applications to education
Chair: Dr. Diego Carrasco

Multilevel synthesis of composite cross-classified event scores as a psychometric approach for EdTech
Dr. Dmitry Abbakumov

Latent logistic regression analysis of background characteristics on digital literacy
Dr. Qianru Liang

Accounting for ceiling effects on polytomous responses. An illustration with gender equality endorsement.
Dr. Diego Carrasco

Score-difference-at-risk (SDaR): using risk metrics to anticipate negative impact.
Dr. Sergio Araneda

Trends in teacher professionalism studies using keyword network analysis
Jooho Lee

RB 211

Session: Topics in machine learning
Chair: Dr. Youmi Suk

An interpretable cognitive diagnostic model based on XGBoost and shap
Ms. Chang Nie

Understanding of measurement invariance within a SEMtree framework
Mr. YeongJin Jo

Using conditional tabular generative adversarial networks for process data generation in Monte Carlo simulation studies
Dr. Youmi Suk

Unveiling competencies for efficient AI utilization: a psychometric perspective
Ms. Bhavana Srirangam

10:15 a.m. -
10:30 a.m.

Atrium RB**Refreshment Break**

10:30 a.m. -
11:15 a.m.

Vencovského aula

Invited Speaker: Dr. Maria Bolsinova
Rating systems for measurement in adaptive learning systems: challenges and solutions
Chair: Prof. Maarten Marsman

RB 101

Invited Speaker: Prof. Peter Halpin
Using robust scaling to address DIF and DTF in latent variable models
Chair: Prof. David Thissen

FRIDAY
CONTINUED
11:30 a.m. -
12:45 p.m.

<p>RB 101</p> <p>Symposium: User beware - emerging evidence that survey item calibration and scoring decisions can introduce substantial bias into growth mixture model results <i>Chair: Dr. Veronica Cole</i></p> <p>Latent trajectory or measurement artifact? Understanding the effects of unmodeled response styles on growth mixture modeling results. <i>Dr. Veronica Cole</i></p> <p>Why producing unbiased survey scores for use in growth mixture models is almost impossible: a few illustrations <i>Dr. James Soland</i></p> <p>Investigating the sensitivity of growth mixture model results to conditioning scoring decisions on time-invariant covariates <i>Stephen Tavares</i></p>	<p>NB A</p> <p>Session: Applications of longitudinal data analysis <i>Chair: Dr. Soojin Park</i></p> <p>Comparing trajectories of school-to-work transitions using latent transition analysis <i>Dr. Tomasz Źoltak</i></p> <p>Identifying subject heterogeneity in longitudinal brain connectivity patterns with clusterwise-IVA <i>Dr. Tom Wilderjans</i></p> <p>Ability tracking for intelligent tutoring systems <i>Mr. Karl Sigfrid</i></p> <p>Decomposing social disparities through various interventions: incorporating simulation-based sensitivity analysis <i>Dr. Soojin Park</i></p>	<p>NB B</p> <p>Session: Topics in structural equation modeling <i>Chair: Dr. Graham Rifenbark</i></p> <p>Evaluating latent mean differences across studies with meta-analytic CFA <i>Suzanne Jak</i></p> <p>Recursive partitioning of continuous-time structural equation models <i>Dr. Pablo F. Cáncer</i></p> <p>Evaluating multigroup structural equation modeling with exploratory measurement models <i>Ms. Jennifer Dang Guay</i></p> <p>Small sample estimation of structural equation models: a comparison of alternative estimation approaches <i>Dr. Graham Rifenbark</i></p>	<p>NBC</p> <p>Session: AI and machine learning in educational settings <i>Chair: Dr. Cheng Liu</i></p> <p>Automatic item scoring and generation of reading comprehension items by creating of reading comprehension item repository <i>Radhika Kapoor</i></p> <p>Investigating text complexity indices in predicting SME-rated passage grade <i>Dr. Ann Hu</i></p> <p>Unreliability and historical bias and their relationship to test fairness and equity <i>Dr. Cheng Liu</i></p> <p>Exploring the frontier of fairness: The significance of outliers in algorithmic bias and equity <i>Dr. Sevil Ugurlu</i></p>
<p>NB D</p> <p>Symposium: Methodological advances in Bayesian graphical modeling <i>Chair: Ms. Sara Keetelaar</i></p> <p>Testing conditional independence in psychometric networks <i>Nikola Sekulovski</i></p> <p>How robust are psychometric networks? <i>Ms. Karoline Huth</i></p> <p>Are psychological networks sparse or dense? <i>Ms. Sara Keetelaar</i></p> <p>Dynamic conditional networks for intensive repeated data <i>Prof. Philippe Rast</i></p>	<p>RB 209</p> <p>Session: Estimation methods <i>Chair: Dr. Yeh-Tai Chou</i></p> <p>Applying Fisher's method of scoring to estimate ability parameters of the multi-unidimensional pairwise-preference model <i>Dr. Yeh-Tai Chou</i></p> <p>Estimating hierarchical drift diffusion models: a comparison of methods <i>Ms. Yufei Wu</i></p> <p>Dealing with small-sample biases in AR(1) models: methods for psychological research <i>Zhiwei Dou</i></p> <p>Empirical bias-reducing adjustments for item response theory (IRT) models <i>Dr. Haziq Jamil</i></p> <p>Estimating high-dimensional latent variable models via minibatch variance-reduced stochastic optimisation <i>Mr. Motonori Oka</i></p>	<p>RB 210</p> <p>Session: Topics in IRT 4 <i>Chair: Dr. Merve Sarac</i></p> <p>Item compromise and preknowledge detection using response time and distractors <i>Dr. Merve Sarac</i></p> <p>Exploratory higher-ordered diagnostic modeling framework for general response types <i>Ms. Jia Liu</i></p> <p>Using the multidimensional nominal response model to model faking: the importance of item desirability characteristics <i>Mr. Timo Seitz</i></p> <p>A multivariate logit-function for modeling continuous bounded interval responses <i>Mr. Matthias Kloft</i></p> <p>Respondent-level change-point detection in educational and psychological testing <i>Dr. Gabriel Wallin</i></p>	<p>RB 211</p> <p>Session: Psychometric applications to health outcomes <i>Chair: Dr. Carl Falk</i></p> <p>Researching response-scale format effects in questionnaires: using the height Inventory <i>Dr. Hynek Cigler</i></p> <p>Bot detection: simulations and application in people-centered health measurement surveys <i>Dr. Carl Falk</i></p> <p>Cognitive psychometric approach for modeling cognitive aging across ambulatory assessments <i>Sharon Kim</i></p> <p>Do psychometrics matter? The effects of psychometrics on depression trial outcomes <i>Dr. David Byrne</i></p> <p>A two-step approach for personalized treatment recommendations in mental health using convex generalized structured component analysis and Bayesian networks <i>Dr. Younyoung Choi</i></p>



**FRIDAY
CONTINUED**
12:45 p.m. -
2:00 p.m.

VŠE Menza

Lunch (On Your Own)

2:00 p.m. -
3:00 p.m.

Vencovského aula

Presidential Address: Prof. David Kaplan
Probabilistic forecasting with international large-scale assessments: methods for estimating the pace of progress to the United Nations education sustainable development targets
Chair: Prof. Denny Borsboom

3:00 p.m. -
3:30 p.m.

Vencovského aula

Members Meeting

3:30 p.m. -
4:30 p.m.

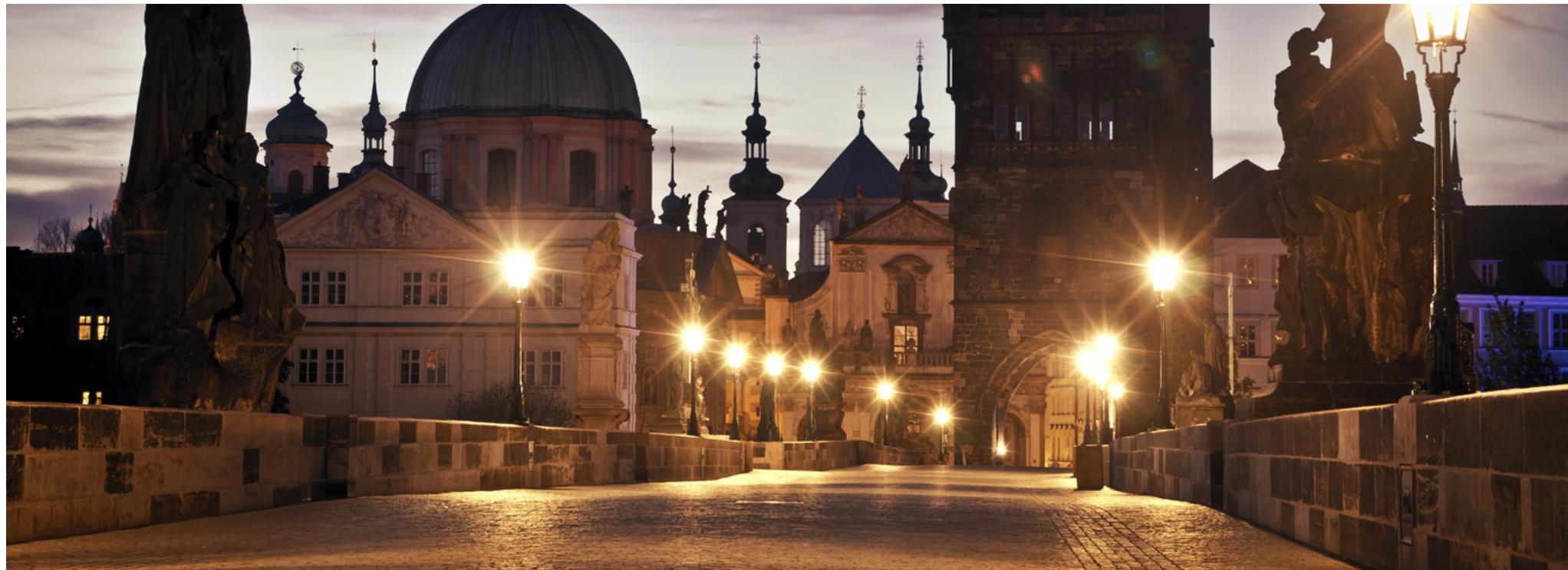
Vencovského aula

Awards and Closing Ceremony

6:00 p.m. -
10:00 p.m.

Prague Boats | Address: Dvořákovo nábř., 110 00 Josefov, Prague

Closing Banquet Reception & Boat Cruise



- Thank you to the **Prague Convention Bureau** for the images used in this document. -